



# Setting Your Software Environment with SDD Configurator

Software Version PADS 9.4

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## End-User License Agreement



# Chapter 1

## Configurator Overview

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The Configurator is a tool that sets up your PC Windows environment to run your tools. The Configurator is used in the following situations:

- The Configurator runs automatically when you [install](#) your software. It examines your environment and leads you through a series of dialog boxes. It then sets up your environment based on the selections you have made.
- You run the Configurator manually to [switch between product versions or different application flows](#). Mentor Graphics System Design Division (MGC SDD) tools can coexist on your computer. When you install a new version of SDD software in your existing `<path_to_install_target>` directory, a new version of the `<path_to_install_target>\win32\configurator.exe` is installed.
- This new Configurator keeps track of previous releases that might also be installed in the `<path_to_install_target>` directory. At any time you can choose to switch between different versions by running the Configurator to update your environment for the product and version you have selected.
- You run the Configurator manually as a “fixup” tool. If you are having issues with your software that you believe may be environment-related, run the Configurator to automatically rematch your environment to your present software setup.
- The Configurator is run automatically when you [uninstall](#) your software.

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### Note



Beginning with the 2005 release, all environment variables set by the Configurator have been moved from the User variables section to the System variables section. The result of this change is that tool installations are configured for all users of a given computer. Users who will be installing the tools or running the Configurator are required to have administrator privileges on the computer; power user privileges are not sufficient. However, users who do not need to reconfigure the tools will no longer require power user or administrator access.

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The Configurator is available only on the PC Windows environment. In UNIX, the environment settings are managed through the use of wrapper scripts. Applications should be invoked by a wrapper script located in the common bin directory `${SDD_HOME}/common/${SDD_PLATFORM}/bin`.

The following topics provide additional overview information on the Configurator:

- [Who Can Run the Configurator?](#)

- [What Happens During the Install Process](#)
- [What Happens During the Uninstall Process](#)
- [What Happens When Switching Between Releases or Flows](#)
- [Configurator Initialization Files](#)
  - [Automating the License and WDIR Configurator Settings](#)
- [Configurator Variables](#)

**Related Topic**

- [Using the Configurator](#)

## Who Can Run the Configurator?

Based on the setting of the SDD\_USELOCALENV system variable will determine who can run the Configurator. The following table shows how the SDD\_USELOCALENV variable determines who can run the Configurator:

**Table 1-1. SDD\_USELOCALENV Settings**

<b>SDD_USELOCALENV set to:</b>	<b>Who can run the Mentor Graphics SDD Configurator</b>
ADMIN	Only the initial installing Administrator will be able to see the Mentor Graphics SDD programs on their Start menu and execute the programs. Power Users and any other users cannot run the Configurator or other programs.
POWER_USER	Only the initial installing Administrator will be able to see the Mentor Graphics SDD programs on their Start menu.  However, all other Administrators and Power Users can execute the programs. Other Administrators and Power Users will have to run the Configurator to configure their access to the programs. Users not in these categories cannot run the programs.
USER	Only the initial installing Administrator will be able to see the Mentor Graphics SDD programs on their Start menu.  All other Administrators, Power Users, and any other user can execute the programs. The other users will have to run the Configurator to configure their access to the programs.

To use the SDD\_USELOCALENV variable functionality, the variable must be set before performing an installation.

If you do not set this variable prior to an installation, the Configurator writes all registry entries and environment variables to the HKCR and HKLM area of the registry, and to the system table respectively. In this condition, only an Administrator can run the Configurator and the system is set up for all users. If you do perform an installation without first setting the SDD\_USELOCALENV variable and then decide that you want to use this variable functionality, you must first run the Configurator in a Command Prompt (DOS) shell with the clean switch enabled. (See “[Running Configurator from Command Line](#)” on page 21.) Then you can set the variable and re-run the Configurator.

## What Happens During the Install Process

During a Mentor Graphics application installation, the Configurator performs the following tasks:

- **Check for registered Mentor Graphics applications**  
The Configurator searches the running processes (task list) on the target system for specific Mentor Graphics applications. If these processes are identified, they are presented to you for termination.
- **Install runtime libraries (core components install)**  
The Configurator updates Microsoft and Microsoft Partner dll/ocx/exe libraries located in the windows system32 directory (%WINDIR%\system32). This process also includes fonts. Versions of these libraries are controlled by an ini file (vldllenv.ini).
- **Create/update env variables**  
The Configurator creates and/or updates the environment variables. This is done based on information provided in the [env.ini](#) files. These ini files are in a win32 directory located at the root of the product family hierarchy. Example:  
%SDD\_HOME%\hssd\win32\env.ini
- **Register executables and Direct Linked Libraries (DLLs)**  
Executables and DLLs can be registered using the Configurator. These files are listed in the env.ini file and made compliant with the regsvr utility provided by the Windows operating system.
- **Make registry entries**  
Registry files (\*.reg) are imported into the registry by the Configurator using the regedit utility.
- **Start menu and Desktop icons**  
The Configurator manages icons, Start menu and Desktop through the startmenu.ini file. The Configurator creates a default, static directory “Mentor Graphics SDD” below the program folder in the Start menu. Icons are created below this folder as defined in the [startmenu.ini](#) file. The Configurator also creates an icon to itself in the “Mentor Graphics SDD” folder. These icons, both Start menu and Desktop are created in the “All Users” profile.

- **Optional - Silent execution** (uses [configurator.ini](#) file)  
The Configurator can be run in “silent” mode using the [command line execution](#) in combination with the `-inifile` switch and the `configurator.ini` file.

## What Happens During the Uninstall Process

When you use the Configurator to uninstall specific Mentor Graphics applications, the following tasks are executed:

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### Note



These same steps occur when you use the `-clean` option when switching between releases. (See [Running Configurator from Command Line](#) and [Switching Between Releases or Flows](#).)

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- **Check for registered Mentor Graphics applications**  
The Configurator searches the running processes (task list) on the target system for specific Mentor Graphics applications. If these processes are identified, they are terminated. This functionality is identical to the process used in installs.
- **Remove Start menu and Desktop icons**  
The Configurator uses the [startmenu.ini](#) for the removal of Start menu and Desktop icons. The Configurator will leave no icon behind on either the Desktop or Start menu. If no icons are present in the “Mentor Graphics SDD” folder, it will be removed.
- **Remove registration of executables and DLLs in the registry**  
The Configurator removes the registration of executables and DLLs from the registry provided they are listed in the [env.ini](#) file.
- **Remove env variables**  
Environment variables listed in the `env.ini` file are removed by the Configurator.

This uninstall/clean process does not remove source files from your file system. The files remain available if you want to switch back to this release at a later date. (Also see [What Happens When Switching Between Releases or Flows](#).) If you choose to remove the files from your file system, you must use the appropriate operating system method of removing directories and files.

## What Happens When Switching Between Releases or Flows

There are times when you may want to install and use different versions of the software on the same machine. The Configurator can be used to achieve this goal. There are two possible configurations:

- [Installations With the Same path\\_to\\_install\\_target Directory \(Preferred\)](#)



- [Installations With Different path\\_to\\_install\\_target Directories](#)

Each time a release is installed in the `<path_to_install_target>` location, a new configurator.exe file is placed in `<path_to_install_target>/win32`. This Configurator keeps track of all the software releases. The Configurator does the following when you switch releases:

- **Detect previous releases**  
Detects major versions of installed software in the same `<path_to_install_target>`. It will present the findings for selection during execution.  
  
If a clean process has been previously run, the Version selection field in the Select Version dialog box will not show a preselected item. You will need to select an item from the dropdown list. For information on what happens when `-clean` is run, see [What Happens During the Uninstall Process](#).
- **Update environment variables**  
Updates environment variables to the values required for the configured release. It also adds and removes additional variables if they are needed or obsolete. The `env.ini` files delivered with the release being configured is referenced for this information.
- **Register executable files and DLLs**  
Re-registers executables and DLLs listed in the `env.ini` files associated with the release being configured.
- **Update registry entries**  
Re-runs reg files listed in the `env.ini` to refresh key values. It will not remove any entries made by reg files.
- **Update Desktop and Start menu icons**  
Desktop and Start menu icons are refreshed to point to the configured version of the software. These values are listed in the `startmenu.ini` files.

## Configurator Initialization Files

The Configurator references a number of `.ini` files during execution. The following list identifies each one and shows you which ones are user-configurable and which ones you should not modify.

- **configurator.ini**
  - User-configurable? - Yes
  - Default File-system location - `%SDD_HOME%\common\win32`

This file allows you to provide configuration information to the Configurator during non-stop (automated) execution mode during a “silent” installation. The `configurator.exe -inifile` command references the `configurator.ini` file for information such as the working directory location and the location of the license file. The file can be located anywhere if referenced with the `-inifile` switch. Also see [Automating the License and WDIR Configurator Settings](#).

- **config.ini**
  - User-configurable? - No, do not modify
  - File-system location - %SDD\_HOME%\common

This file informs the Configurator of product families for setting variables and searching .ini files.

- **env.ini**
  - User-configurable? - Not recommended
  - File-system location - %SDD\_HOME%\product\_family\_dir\win32

The Configurator uses the env.ini file to set up environment variables, register files and import registry files into the registry. It creates environment variables into the system environment table only.

- **startmenu.ini**
  - User-configurable? - Not recommended
  - File-system location - %SDD\_HOME%\product\_family\_dir\win32

This file is used by each product to generate desktop and start menu icons.

## Automating the License and WDIR Configurator Settings

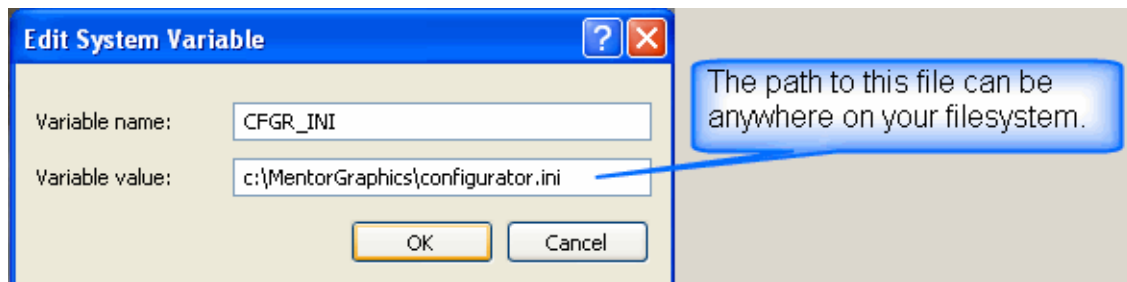
During an initial software installation or when switching between existing releases (such as 2007.7EE, 2007.8EE ...) or flows (such as 9.1PADS, 2007.7BSXE, 2007.8EE ...), the Configurator asks for some configuration information. Configurable information includes the working directory location and the location of the license file.

By using the user-configurable configurator.ini file, you can provide information to the Configurator during non-stop (automated) execution mode during a “silent” installation. This file is referenced in conjunction with running “configurator.exe -inifile”.

### Prerequisite

In order to use the configurator.ini file, you must first set the CFGR\_INI environment variable to point to the configurator.ini location such as the following example shows:

**Figure 1-1. CFGR\_INI Used to Point to configurator.ini File - Example**



## Procedure

- To perform a “silent” SDD install, follow the appropriate instructions found in the Mentor Graphics Install online help.

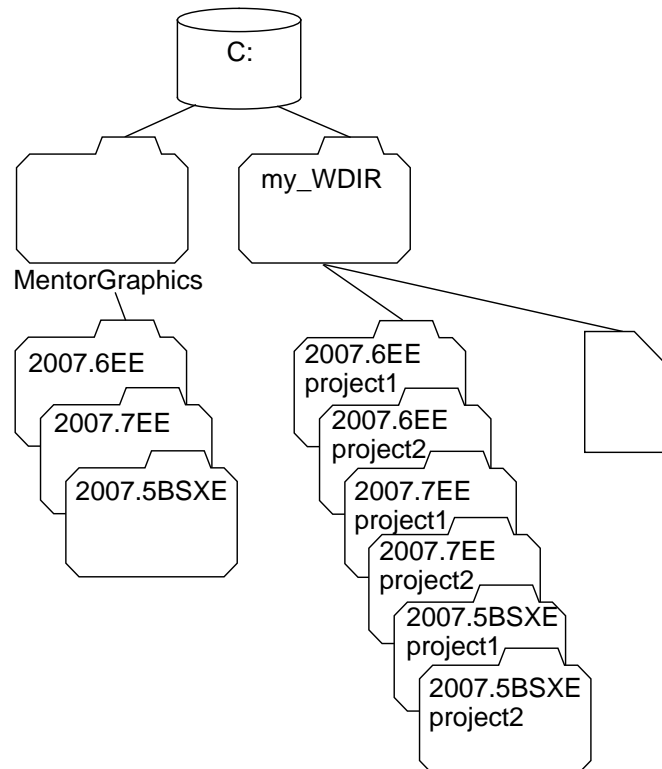
The topic [Choosing Your WDIR Configuration](#) describes how to use the configurator.ini file to specify the license and working directory information to the Configurator during a “silent” installation or when switching between installations for different releases or flows.

## Choosing Your WDIR Configuration

You have choices of how you want to manage your working directory between releases or flows. The following examples show different ways to specify your WDIR configuration in the configuration.ini file with different release and flow installation configurations.

- [Example 1-1 - One Common WDIR for Multiple Releases and Flows](#)
- [Example 1-2 - One WDIR Folder Divided Into SubFolders Per Release/Flow](#)
- [Example 1-3 - Multiple WDIR Folders Each Representing a Release/Flow](#)

### Example 1-1. One Common WDIR for Multiple Releases and Flows

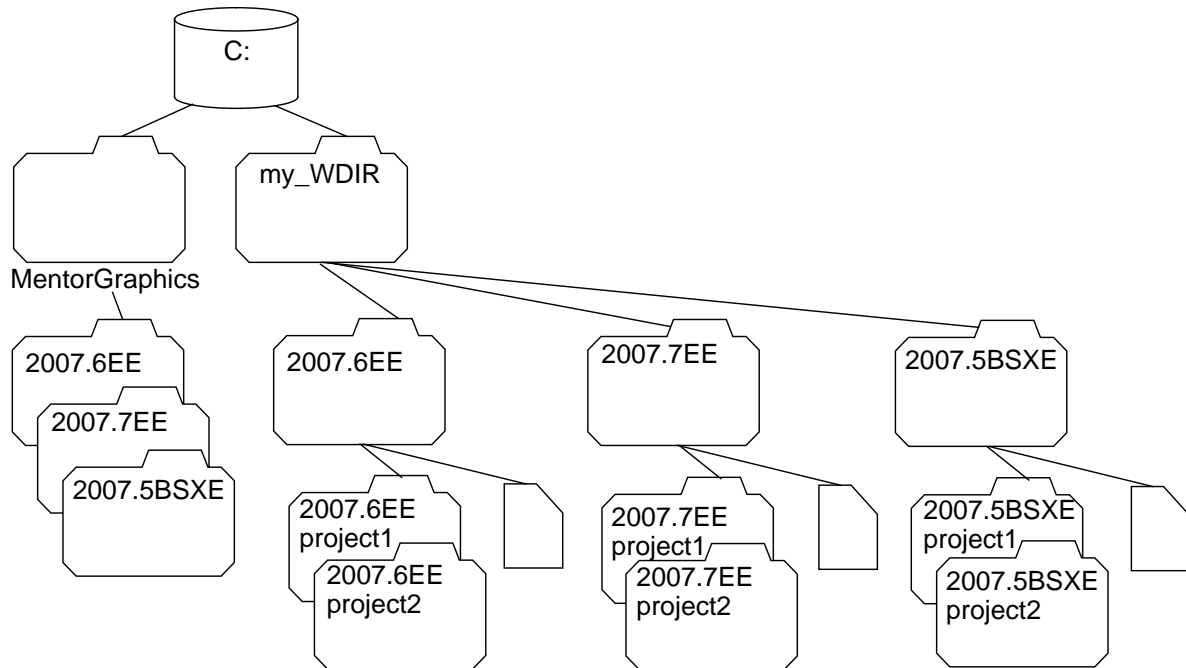


The following configurator.ini file example code matches Example 1-1 to show how to specify one working directory for all releases and flows:

```
[defaults]
MGLS_LICENSE_FILE=8000@licenseserver
WDIR=C:\my_WDIR;%SDD_HOME%\standard
```

The Configurator expands the %SDD\_HOME% variable to substitute the actual path to the \standard folder when setting the system WDIR variable.

### Example 1-2. One WDIR Folder Divided Into SubFolders Per Release/Flow

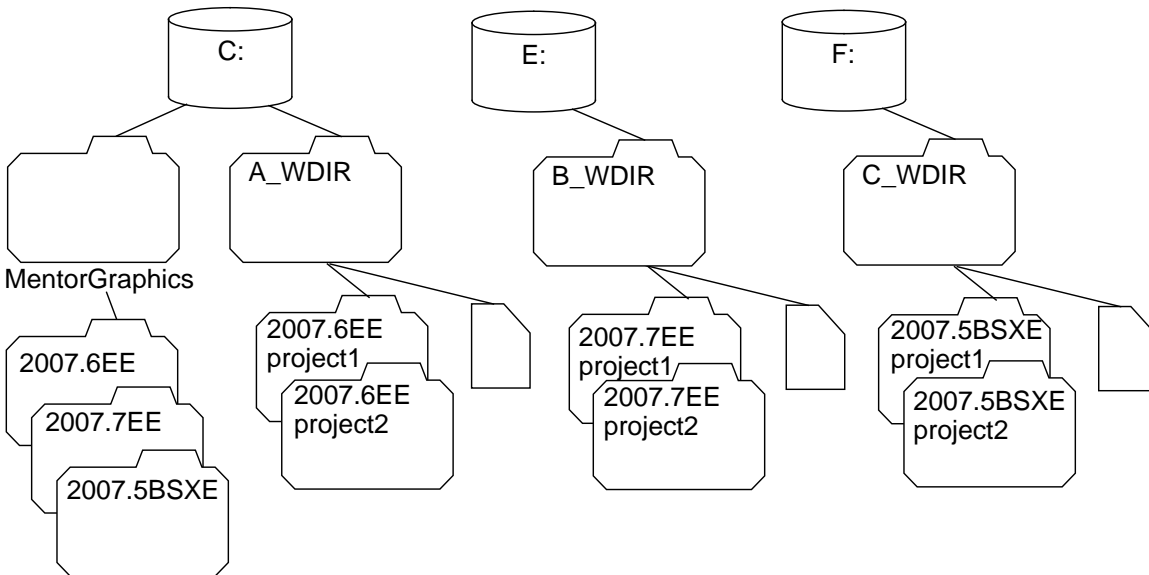


The following configurator.ini example code matches Example 1-2 to show how to specify separate subfolders that are used as the working directory per each release or flow:

```
[defaults]
mgl_s_license_file=8000@licenseserver
WDIR=C:\my_WDIR\%SDD_VERSION%;%SDD_HOME%\standard
```

The Configurator expands the %SDD\_VERSION% and %SDD\_HOME% variables to substitute the value for %SDD\_VERSION% (such as 2007.6EE, 2007.7EE, 2007.5BSXE...) and the actual path to the \standard folder when setting the system WDIR variable.

### Example 1-3. Multiple WDIR Folders Each Representing a Release/Flow



The following example shows how to set a different working directory for specified flows and releases:

```
[defaults]
mgls_license_file=8000@licenseserver
WDIR=C:\my_WDIR;%SDD_HOME%\standard
WDIR_2007.6EE=C:\A_WDIR;%SDD_HOME%\standard
WDIR_2007.7EE=E:\B_WDIR;%SDD_HOME%\standard
WDIR_2007.5BSXE=F:\C_WDIR;%SDD_HOME%\standard
```

You specify the release or flow as: `WDIR_<release>`. If the Configurator finds a match in the `configurator.ini` file for `<release>` during an installation or when you are switching between releases or flows, the `WDIR` variable is set according to the matching line. Using the above example, if you are configuring to the 2007.6EE release, the Configurator sets the `WDIR` variable to:

```
WDIR_2007.6EE=C:\A_WDIR;%SDD_HOME%\standard
```

The Configurator expands the `%SDD_HOME%` variable to substitute the actual path to the `\standard` folder when setting the system `WDIR` variable.

If none of the `WDIR_<release>` lines match the release you are installing or configuring, the entry containing `WDIR=` will set the `WDIR` variable path. In this example, if none of the `WDIR_<release>` paths were found, the Configurator would use the following line to set the `WDIR` path as shown in Example 1-1.

```
WDIR=C:\my_WDIR;%SDD_HOME%\standard
```

## Configurator Variables

The following table identifies some of the variables used by the Configurator:

**Table 1-2. Variables Used by the Configurator**

Variable	Description
CFGR_INI	Use this environment variable to point to the configurator.ini location. <a href="#">Figure 1-1</a> shows an example.
SDD_CFGR_CLEAN	<p>This variable controls whether the <code>-clean</code> option is set to run automatically by the Configurator during switching between releases.</p> <p>If you want the clean to run, set: SDD_CFGR_CLEAN=Y</p> <p>If you want the clean option to be manually configured from the Select Version dialog, set SDD_CFGR_CLEAN=N</p> <p><b>Note:</b> If you use the <code>-version</code> option from the command line, the SDD_CFGR_CLEAN=Y setting is ignored. Also see <a href="#">Running Configurator from Command Line</a>.</p>
SDD_ROOT	<p>This variable references the main directory (<i>&lt;path_to_install_target&gt;</i>) for all Mentor Graphics PCB Software installations. It is the same location as the target directory selected during the installation process.</p> <p>Refer to your installation manual for more details about this variable.</p>
SDD_USELOCALENV	Based on the setting of this system variable determines who can run the Configurator. See <a href="#">Table 1-1</a> .

# Chapter 2

## Using the Configurator

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The following topics describe the various tasks you can do with the Configurator:

- [Choosing Program Accessibility Location](#)
- [Switching Between Releases or Flows](#)
- [Selecting a Product for Installation](#)
- [Setting Your Licensing Environment](#)
- [Setting the Working Directory - WDIR](#)
- [Completing Your Configuration](#)
- [Fixing Environment Variables](#)
- [Running Configurator from Command Line](#)

### Related Topic

- [Configurator Overview](#)

## Choosing Program Accessibility Location

### Procedure

- Use the Start menu dialog box to choose where you want to access your Mentor Graphics programs.
- If you do not want your programs installed under the Mentor Graphics program folder in the Start menu, select a different folder from the list in the Existing Folders box, then click **OK**.

## Switching Between Releases or Flows

The Configurator can be used to switch between different software installations (releases) or process flows.

### Procedures

- [Installations With the Same path\\_to\\_install\\_target Directory \(Preferred\)](#)

- [Installations With Different path\\_to\\_install\\_target Directories](#)

## Installations With the Same path\_to\_install\_target Directory (Preferred)

With this method the Configurator can keep track of the various installations that are installed in the same `<path_to_install_target>` directory and the installation-switching procedure is simple.

### Prerequisite

This procedure works once you have two or more installations in the same `<path_to_install_target>` directory.

### Procedure

1. Invoke `<path_to_install_target>\win32\configurator.exe`.
2. In the Select Version dialog box from the Version pull-down list, choose the release you want.
3. Click **OK**.

## Installations With Different path\_to\_install\_target Directories

When you have installations in different `<path_to_install_target>` directories, you must use the command-line version of the Configurator.

### Prerequisite

Install one or more releases as outlined in the following example:

1. Install products from release A (such as 2007.7EE). The `<path_to_install_target>` directory created during this process will be referred to Directory\_A.
2. Prior to installing next release of the software, run the Configurator in uninstall mode (`Directory_A\win32\configurator.exe -uninstall`.) This does not remove the current installation source files. It just cleans up the environment.
3. When complete, install next version of the software (such as 2007.8EE) into a new directory. The `<path_to_install_target>` directory for this example will be called Directory\_B.

### Procedures

- [Switching from Release B to Release A](#)
- [Switching from Release A to Release B](#)



## Switching from Release B to Release A

This is the supported setup for switching between releases installed in different `<path_to_install_target>` directories. This process leaves you configured for the release (such as 2007.8EE) in Directory\_B. To switch from Release B (2007.8EE) to Release A (2007.7EE), do the following:

### Procedure

1. Execute the Configurator in Directory\_B in uninstall mode (Directory\_B\win32\configurator.exe –uninstall).
2. Once complete, execute the Configurator in Directory\_A.

## Switching from Release A to Release B

To switch from Release A (2007.7EE) to Release B (2007.8EE), do the following:

### Procedure

1. Execute the Configurator in Directory B in uninstall mode (Directory\_A\win32\configurator.exe –uninstall).
2. Once complete, execute the Configurator in Directory\_B.

## Selecting a Product for Installation

You will see the Select Product dialog box when you are installing an SDD product(s) onto a computer that already has an earlier version of that particular product installed.

### Procedure

1. Click to select the tool suite you wish to run.
2. Click **OK**.

## Setting Your Licensing Environment

You will see the User Environment dialog box if you already have a valid MGLS\_LICENSE\_FILE or LM\_LICENSE\_FILE environment variable.

### Procedures

1. Choose one of the following:
  - [Continuing With the License Setup](#)
  - [Skipping the Licensing Setup](#) (Steps 2 through 4 no longer apply)

2. [Choosing the License Type](#)
3. [Setting License Filename](#)
4. [Setting the License Server](#)

## Continuing With the License Setup

### Procedure

1. Select an option:
  - Change the type of license you have (node-locked or network client).
  - Specify the license type to reference either the MGLS\_LICENSE\_FILE or LM\_LICENSE\_FILE variable. If the variable you selected doesn't exist, one is created. If it does exist and you specify a different value, the new value is appended to the previous value.
  - Modify the name or port number of your server (for a networked client).  
or
  - Change your License.dat file (for a node-locked license).
2. Click **Next**. (See [Choosing the License Type](#).)

## Skipping the Licensing Setup

### Procedure

- Click **Next** to bypass further licensing setup steps.

### Related Topics

- [Automating the License and WDIR Configurator Settings](#)

## Choosing the License Type

You use the Select License Type dialog box to specify your licensing scheme.

### Procedure

1. Click to select the type of license you have purchased.
2. Choose the License Product applicable for your environment, either MGLS or LM. MGLS Licensing is the default.
3. Click **Next**. (See [Setting License Filename](#).)

## Setting License Filename

Use the Set License Filename dialog box to point to the License.dat file you wish to use.

### Procedure

1. Browse to the path for the License.dat file. (You can also type the path for your license file in the box. Be sure to include the file name with the path.)

#### Note



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If this is not the first time you have used the Configurator, the path may appear in the box, and other selections may appear in the pulldown.

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#### Examples:

- A:\license.dat -- Path to a License.dat on a floppy disk
  - K:\corporate\_license\_directory\license.dat -- Path to a License.dat stored on a central corporate server.
2. Click **Next**. (See [Setting the License Server](#).)

## Setting the License Server

Use the Set License Server dialog box to connect your client to your license server. There are two steps to this procedure:

1. Select the type of machine that is acting as your license server.
2. Point to the network location of the license server you are using as follows:
  - a. Select either NT-based or UNIX-based as the server type.
  - b. Enter the location of the server in the box, using the following format:

*[port@]servername*

If you do not fill in the port number *[port@]*, the Configurator will assume the following defaults:

- 1717 for NT Servers
  - 1717 for UNIX servers
3. Click **Next**.

## Setting the Working Directory - WDIR

The Set WDIR dialog box is used to set the working directory. If this is your first time installing, you probably have not yet created a WDIR directory. SDD products use the WDIR directory to store user-specific information.

### Procedure

1. Browse to or explicitly type in the path to the directory where you would like to place your WDIR. If the directory does not exist, the Configurator will ask if you wish it to be created.
2. Click **Next**.

### Related Topics

- [Automating the License and WDIR Configurator Settings](#)

## Completing Your Configuration

The Configuration Complete dialog displays the actions that the Configurator has performed. To accept your configuration and close the Configurator, do the following:

### Procedure

- If the information is correct, click **Finish**. If not, click **Back**.

## Fixing Environment Variables

You will see the Fix Environment Variables dialog box if you have changed the value of any SDD environment variables. If you did not use the Configurator to change these values, then the next time the Configurator runs it will detect that the variables are set incorrectly.

### Procedure

1. Click **Yes** to have the Configurator accept the changes you have made.
2. Click **No** to have the Configurator correct the environment variable settings.

## Running Configurator from Command Line

The Configurator can be run from a command line window using the following syntax:

```
<path_to_install_target>\win32\configurator.exe [ -automatic | -bypass |  
-infile=<path_to_inifile> | -install | -clean | -version=<release_version> ]
```

- **-automatic**  
Use this switch to remove the runtime environment from the target system. It executes like the **-clean** switch.
- **-bypass**  
Use this switch to bypass the Configurator completely. This is useful for a setup on an application server where variables and registry modifications are not desirable. Suggested use: silent or server installs
- **-infile=<path\_to\_inifile>**  
Use this switch to pass the *path\_to\_inifile* to the Configurator. This file must follow the configurator.ini format. (Also see [Automating the License and WDIR Configurator Settings](#).) This switch can be used for silent installs.

An alternative way of setting the path to the configurator.ini file using the environment variable CFGR\_INI is shown as follows:

```
CFGR_INI=c:\temp\configurator.ini
```

- **-install**  
This switch prompts user if they want to continue the execution of the Configurator. Refer to the topic titled [What Happens During the Install Process](#) for details.
- **-clean**  
Use this switch to invoke the Configurator in the cleanup mode. For details on what happens during the cleanup process refer to the topic titled [What Happens During the Uninstall Process](#). To execute the Configurator in cleanup mode without being prompted, refer to the **-automatic** switch description.
- **-version=<release\_version>**  
This switch is applicable when switching between preinstalled releases to allow you to select the desired release version, instead of using the Select Version dialog. Using this switch will ignore the SDD\_CFGR\_CLEAN=Y setting so that the **-clean** operation will not run. Example: **configurator.exe -version=9.1PADS**



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# End-User License Agreement

The latest version of the End-User License Agreement is available on-line at:  
[www.mentor.com/eula](http://www.mentor.com/eula)

## IMPORTANT INFORMATION

**USE OF ALL SOFTWARE IS SUBJECT TO LICENSE RESTRICTIONS. CAREFULLY READ THIS LICENSE AGREEMENT BEFORE USING THE PRODUCTS. USE OF SOFTWARE INDICATES CUSTOMER'S COMPLETE AND UNCONDITIONAL ACCEPTANCE OF THE TERMS AND CONDITIONS SET FORTH IN THIS AGREEMENT. ANY ADDITIONAL OR DIFFERENT PURCHASE ORDER TERMS AND CONDITIONS SHALL NOT APPLY.**

## END-USER LICENSE AGREEMENT ("Agreement")

This is a legal agreement concerning the use of Software (as defined in Section 2) and hardware (collectively "Products") between the company acquiring the Products ("Customer"), and the Mentor Graphics entity that issued the corresponding quotation or, if no quotation was issued, the applicable local Mentor Graphics entity ("Mentor Graphics"). Except for license agreements related to the subject matter of this license agreement which are physically signed by Customer and an authorized representative of Mentor Graphics, this Agreement and the applicable quotation contain the parties' entire understanding relating to the subject matter and supersede all prior or contemporaneous agreements. If Customer does not agree to these terms and conditions, promptly return or, in the case of Software received electronically, certify destruction of Software and all accompanying items within five days after receipt of Software and receive a full refund of any license fee paid.

### 1. ORDERS, FEES AND PAYMENT.

- 1.1. To the extent Customer (or if agreed by Mentor Graphics, Customer's appointed third party buying agent) places and Mentor Graphics accepts purchase orders pursuant to this Agreement ("Order(s)"), each Order will constitute a contract between Customer and Mentor Graphics, which shall be governed solely and exclusively by the terms and conditions of this Agreement, any applicable addenda and the applicable quotation, whether or not these documents are referenced on the Order. Any additional or conflicting terms and conditions appearing on an Order will not be effective unless agreed in writing by an authorized representative of Customer and Mentor Graphics.
- 1.2. Amounts invoiced will be paid, in the currency specified on the applicable invoice, within 30 days from the date of such invoice. Any past due invoices will be subject to the imposition of interest charges in the amount of one and one-half percent per month or the applicable legal rate currently in effect, whichever is lower. Prices do not include freight, insurance, customs duties, taxes or other similar charges, which Mentor Graphics will state separately in the applicable invoice(s). Unless timely provided with a valid certificate of exemption or other evidence that items are not taxable, Mentor Graphics will invoice Customer for all applicable taxes including, but not limited to, VAT, GST, sales tax and service tax. Customer will make all payments free and clear of, and without reduction for, any withholding or other taxes; any such taxes imposed on payments by Customer hereunder will be Customer's sole responsibility. If Customer appoints a third party to place purchase orders and/or make payments on Customer's behalf, Customer shall be liable for payment under Orders placed by such third party in the event of default.
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3. **ESC SOFTWARE.** If Customer purchases a license to use development or prototyping tools of Mentor Graphics' Embedded Software Channel ("ESC"), Mentor Graphics grants to Customer a nontransferable, nonexclusive license to reproduce and distribute executable files created using ESC compilers, including the ESC run-time libraries distributed with ESC C and C++ compiler Software that are linked into a composite program as an integral part of Customer's compiled computer program, provided that Customer distributes these files only in conjunction with Customer's compiled computer program. Mentor Graphics does NOT grant Customer any right to duplicate, incorporate or embed copies of Mentor Graphics' real-time operating systems or other embedded software products into Customer's products or applications without first signing or otherwise agreeing to a separate agreement with Mentor Graphics for such purpose.
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  - 4.3. Customer agrees to maintain Beta Code in confidence and shall restrict access to the Beta Code, including the methods and concepts utilized therein, solely to those employees and Customer location(s) authorized by Mentor Graphics to perform beta testing. Customer agrees that any written evaluations and all inventions, product improvements, modifications or developments that Mentor Graphics conceived or made during or subsequent to this Agreement, including those based partly or wholly on Customer's feedback, will be the exclusive property of Mentor Graphics. Mentor Graphics will have exclusive rights, title and interest in all such property. The provisions of this Subsection 4.3 shall survive termination of this Agreement.
5. **RESTRICTIONS ON USE.**
  - 5.1. Customer may copy Software only as reasonably necessary to support the authorized use. Each copy must include all notices and legends embedded in Software and affixed to its medium and container as received from Mentor Graphics. All copies shall remain the property of Mentor Graphics or its licensors. Customer shall maintain a record of the number and primary location of all copies of Software, including copies merged with other software, and shall make those records available to Mentor Graphics upon request. Customer shall not make Products available in any form to any person other than Customer's employees and on-site contractors, excluding Mentor Graphics competitors, whose job performance requires access and who are under obligations of confidentiality. Customer shall take appropriate action to protect the confidentiality of Products and ensure that any person permitted access does not disclose or use it except as permitted by this Agreement. Customer shall give Mentor Graphics written notice of any unauthorized disclosure or use of the Products as soon as Customer learns or becomes aware of such unauthorized disclosure or use. Except as otherwise permitted for purposes of interoperability as specified by applicable and mandatory local law, Customer shall not reverse-assemble, reverse-compile, reverse-engineer or in any way derive any source code from Software. Log files, data files, rule files and script files generated by or for the Software (collectively "Files"), including without limitation files containing Standard Verification Rule Format ("SVRF") and Tcl Verification Format ("TVF") which are Mentor Graphics' proprietary syntaxes for expressing process rules, constitute or include confidential information of Mentor Graphics. Customer may share Files with third parties, excluding Mentor Graphics competitors, provided that the confidentiality of such Files is protected by written agreement at least as well as Customer protects other information of a similar nature or importance, but in any case with at least reasonable care. Customer may use Files containing SVRF or TVF only with Mentor Graphics products. Under no circumstances shall Customer use Software or Files or allow their use for the purpose of developing, enhancing or marketing any product that is in any way competitive with Software, or disclose to any third party the results of, or information pertaining to, any benchmark.
  - 5.2. If any Software or portions thereof are provided in source code form, Customer will use the source code only to correct software errors and enhance or modify the Software for the authorized use. Customer shall not disclose or permit disclosure of source code, in whole or in part, including any of its methods or concepts, to anyone except Customer's employees or contractors, excluding Mentor Graphics competitors, with a need to know. Customer shall not copy or compile source code in any manner except to support this authorized use.
  - 5.3. Customer may not assign this Agreement or the rights and duties under it, or relocate, sublicense or otherwise transfer the Products, whether by operation of law or otherwise ("Attempted Transfer"), without Mentor Graphics' prior written consent and payment of Mentor Graphics' then-current applicable relocation and/or transfer fees. Any Attempted Transfer without Mentor Graphics' prior written consent shall be a material breach of this Agreement and may, at Mentor Graphics' option, result in the immediate termination of the Agreement and/or the licenses granted under this Agreement. The terms of this Agreement, including without limitation the licensing and assignment provisions, shall be binding upon Customer's permitted successors in interest and assigns.

5.4. The provisions of this Section 5 shall survive the termination of this Agreement.

6. **SUPPORT SERVICES.** To the extent Customer purchases support services, Mentor Graphics will provide Customer updates and technical support for the Products, at the Customer site(s) for which support is purchased, in accordance with Mentor Graphics' then current End-User Support Terms located at <http://supportnet.mentor.com/about/legal/>.
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8. **LIMITED WARRANTY.**
  - 8.1. Mentor Graphics warrants that during the warranty period its standard, generally supported Products, when properly installed, will substantially conform to the functional specifications set forth in the applicable user manual. Mentor Graphics does not warrant that Products will meet Customer's requirements or that operation of Products will be uninterrupted or error free. The warranty period is 90 days starting on the 15th day after delivery or upon installation, whichever first occurs. Customer must notify Mentor Graphics in writing of any nonconformity within the warranty period. For the avoidance of doubt, this warranty applies only to the initial shipment of Software under an Order and does not renew or reset, for example, with the delivery of (a) Software updates or (b) authorization codes or alternate Software under a transaction involving Software re-mix. This warranty shall not be valid if Products have been subject to misuse, unauthorized modification or improper installation. MENTOR GRAPHICS' ENTIRE LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY SHALL BE, AT MENTOR GRAPHICS' OPTION, EITHER (A) REFUND OF THE PRICE PAID UPON RETURN OF THE PRODUCTS TO MENTOR GRAPHICS OR (B) MODIFICATION OR REPLACEMENT OF THE PRODUCTS THAT DO NOT MEET THIS LIMITED WARRANTY, PROVIDED CUSTOMER HAS OTHERWISE COMPLIED WITH THIS AGREEMENT. MENTOR GRAPHICS MAKES NO WARRANTIES WITH RESPECT TO: (A) SERVICES; (B) PRODUCTS PROVIDED AT NO CHARGE; OR (C) BETA CODE; ALL OF WHICH ARE PROVIDED "AS IS."
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12. **INFRINGEMENT.**
  - 12.1. Mentor Graphics will defend or settle, at its option and expense, any action brought against Customer in the United States, Canada, Japan, or member state of the European Union which alleges that any standard, generally supported Product acquired by Customer hereunder infringes a patent or copyright or misappropriates a trade secret in such jurisdiction. Mentor Graphics will pay costs and damages finally awarded against Customer that are attributable to the action. Customer understands and agrees that as conditions to Mentor Graphics' obligations under this section Customer must: (a) notify Mentor Graphics promptly in writing of the action; (b) provide Mentor Graphics all reasonable information and assistance to settle or defend the action; and (c) grant Mentor Graphics sole authority and control of the defense or settlement of the action.

- 12.2. If a claim is made under Subsection 12.1 Mentor Graphics may, at its option and expense, (a) replace or modify the Product so that it becomes noninfringing; (b) procure for Customer the right to continue using the Product; or (c) require the return of the Product and refund to Customer any purchase price or license fee paid, less a reasonable allowance for use.
- 12.3. Mentor Graphics has no liability to Customer if the action is based upon: (a) the combination of Software or hardware with any product not furnished by Mentor Graphics; (b) the modification of the Product other than by Mentor Graphics; (c) the use of other than a current unaltered release of Software; (d) the use of the Product as part of an infringing process; (e) a product that Customer makes, uses, or sells; (f) any Beta Code or Product provided at no charge; (g) any software provided by Mentor Graphics' licensors who do not provide such indemnification to Mentor Graphics' customers; or (h) infringement by Customer that is deemed willful. In the case of (h), Customer shall reimburse Mentor Graphics for its reasonable attorney fees and other costs related to the action.
- 12.4. THIS SECTION 12 IS SUBJECT TO SECTION 9 ABOVE AND STATES THE ENTIRE LIABILITY OF MENTOR GRAPHICS AND ITS LICENSORS FOR DEFENSE, SETTLEMENT AND DAMAGES, AND CUSTOMER'S SOLE AND EXCLUSIVE REMEDY, WITH RESPECT TO ANY ALLEGED PATENT OR COPYRIGHT INFRINGEMENT OR TRADE SECRET MISAPPROPRIATION BY ANY PRODUCT PROVIDED UNDER THIS AGREEMENT.
13. **TERMINATION AND EFFECT OF TERMINATION.** If a Software license was provided for limited term use, such license will automatically terminate at the end of the authorized term.
- 13.1. Mentor Graphics may terminate this Agreement and/or any license granted under this Agreement immediately upon written notice if Customer: (a) exceeds the scope of the license or otherwise fails to comply with the licensing or confidentiality provisions of this Agreement, or (b) becomes insolvent, files a bankruptcy petition, institutes proceedings for liquidation or winding up or enters into an agreement to assign its assets for the benefit of creditors. For any other material breach of any provision of this Agreement, Mentor Graphics may terminate this Agreement and/or any license granted under this Agreement upon 30 days written notice if Customer fails to cure the breach within the 30 day notice period. Termination of this Agreement or any license granted hereunder will not affect Customer's obligation to pay for Products shipped or licenses granted prior to the termination, which amounts shall be payable immediately upon the date of termination.
- 13.2. Upon termination of this Agreement, the rights and obligations of the parties shall cease except as expressly set forth in this Agreement. Upon termination, Customer shall ensure that all use of the affected Products ceases, and shall return hardware and either return to Mentor Graphics or destroy Software in Customer's possession, including all copies and documentation, and certify in writing to Mentor Graphics within ten business days of the termination date that Customer no longer possesses any of the affected Products or copies of Software in any form.
14. **EXPORT.** The Products provided hereunder are subject to regulation by local laws and United States government agencies, which prohibit export or diversion of certain products and information about the products to certain countries and certain persons. Customer agrees that it will not export Products in any manner without first obtaining all necessary approval from appropriate local and United States government agencies.
15. **U.S. GOVERNMENT LICENSE RIGHTS.** Software was developed entirely at private expense. All Software is commercial computer software within the meaning of the applicable acquisition regulations. Accordingly, pursuant to US FAR 48 CFR 12.212 and DFAR 48 CFR 227.7202, use, duplication and disclosure of the Software by or for the U.S. Government or a U.S. Government subcontractor is subject solely to the terms and conditions set forth in this Agreement, except for provisions which are contrary to applicable mandatory federal laws.
16. **THIRD PARTY BENEFICIARY.** Mentor Graphics Corporation, Mentor Graphics (Ireland) Limited, Microsoft Corporation and other licensors may be third party beneficiaries of this Agreement with the right to enforce the obligations set forth herein.
17. **REVIEW OF LICENSE USAGE.** Customer will monitor the access to and use of Software. With prior written notice and during Customer's normal business hours, Mentor Graphics may engage an internationally recognized accounting firm to review Customer's software monitoring system and records deemed relevant by the internationally recognized accounting firm to confirm Customer's compliance with the terms of this Agreement or U.S. or other local export laws. Such review may include FLEXlm or FLEXnet (or successor product) report log files that Customer shall capture and provide at Mentor Graphics' request. Customer shall make records available in electronic format and shall fully cooperate with data gathering to support the license review. Mentor Graphics shall bear the expense of any such review unless a material non-compliance is revealed. Mentor Graphics shall treat as confidential information all information gained as a result of any request or review and shall only use or disclose such information as required by law or to enforce its rights under this Agreement. The provisions of this Section 17 shall survive the termination of this Agreement.
18. **CONTROLLING LAW, JURISDICTION AND DISPUTE RESOLUTION.** The owners of certain Mentor Graphics intellectual property licensed under this Agreement are located in Ireland and the United States. To promote consistency around the world, disputes shall be resolved as follows: excluding conflict of laws rules, this Agreement shall be governed by and construed under the laws of the State of Oregon, USA, if Customer is located in North or South America, and the laws of Ireland if Customer is located outside of North or South America. All disputes arising out of or in relation to this Agreement shall be submitted to the exclusive jurisdiction of the courts of Portland, Oregon when the laws of Oregon apply, or Dublin, Ireland when the laws of Ireland apply. Notwithstanding the foregoing, all disputes in Asia arising out of or in relation to this Agreement shall be resolved by arbitration in Singapore before a single arbitrator to be appointed by the chairman of the Singapore International Arbitration Centre ("SIAC") to be conducted in the English language, in accordance with the Arbitration Rules of the SIAC in effect at the time of the dispute, which rules are deemed to be incorporated by reference in this section. This section shall not

restrict Mentor Graphics' right to bring an action against Customer in the jurisdiction where Customer's place of business is located. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement.

19. **SEVERABILITY.** If any provision of this Agreement is held by a court of competent jurisdiction to be void, invalid, unenforceable or illegal, such provision shall be severed from this Agreement and the remaining provisions will remain in full force and effect.
20. **MISCELLANEOUS.** This Agreement contains the parties' entire understanding relating to its subject matter and supersedes all prior or contemporaneous agreements, including but not limited to any purchase order terms and conditions. Some Software may contain code distributed under a third party license agreement that may provide additional rights to Customer. Please see the applicable Software documentation for details. This Agreement may only be modified in writing by authorized representatives of the parties. Waiver of terms or excuse of breach must be in writing and shall not constitute subsequent consent, waiver or excuse.

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